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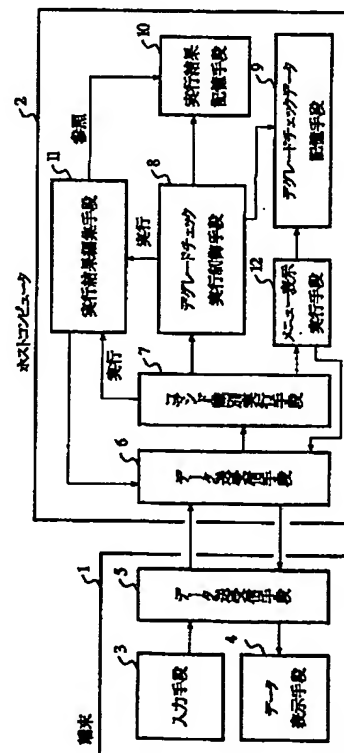
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(54)【発明の名称】 デグレードチェック実行装置

(57)【要約】

【目的】プログラムモジュールを変更したとき既存機能に支障がないか否かを簡単にテストできる装置を提供する。

【構成】ホストコンピュータ 2 内にプログラムモジュール別に既存機能の動作をテストするテストデータとこの期待される動作結果を示す期待値とを予め記憶するデグレードチェックデータ記憶手段 9 を設ける。ホストコンピュータ 2 内に設けたコマンド識別実行手段 7 でデグレードチェック実行制御手段 8 を起動する。コマンドが識別されると、指定されたプログラムモジュールにデグレードチェックデータ記憶手段 9 内のテストデータを入力して対象とするプログラムモジュールを動作させその期待値とともに実行結果を実行結果記憶手段 10 に記憶する。実行結果編集手段 11 がコマンド識別実行手段 7 により起動されると実行結果記憶手段 10 よりその結果を定められた様式に編集したデータがデータ表示手段 4 に出力される。



## 【特許請求の範囲】

【請求項 1】 端末内に設けたデータおよびコマンドを入力するための入力手段と、前記端末内に設けたデータ表示手段と、ホストコンピュータ内に設けられて予め作成され修正されたプログラムモジュールについてこのプログラムモジュール名別に前記プログラムモジュールが有する既存機能をテストするために与えるべき初期値であるテストデータとこのテストデータを与えられた前記プログラムモジュールが処理して出力すべきデータを期待値としこれらテストデータと期待値とテストすべき機能名とを機能番号に対応づけて記憶させたデグレートテーブルを予め作成して記憶させたデクレードチェックデータ記憶手段と、前記ホストコンピュータ内に設けられ前記入力手段から入力されたコマンドを識別し前記コマンドに対応した制御を行うコマンド識別実行手段と、前記ホストコンピュータ内に設けられ前記コマンド識別実行手段により制御され起動され指定されたプログラムモジュール名に対応する前記機能名と機能番号を前記デグレートチェックデータ記憶手段より読み出し前記データ表示手段に出力するとともに前記入力手段による入力により指定された機能番号を予め定められた前記場所に記憶するメニュー表示実行手段と、前記ホストコンピュータ内に設けられ前記コマンド識別実行手段により制御され起動され前記メニュー表示実行手段が記憶している機能番号に対応づけられて記憶している前記テストデータを初期値として前記ホストコンピュータ内に記憶されている前記プログラムモジュールを起動して動作させその結果の出力と前記テストデータに対応して記憶されている前記デグレートチェックデータ記憶手段内に記憶されている期待値とを出力するデグレートチェック実行手段と、前記ホストコンピュータ内に設けられ前記デグレートチェック実行手段の出力を予め決められた様式で記憶する実行結果記憶手段と、前記ホストコンピュータ内に備えられ前記コマンド識別実行手段により制御され起動されると前記実行結果記憶手段内に記憶されているデータの内で指定されたプログラムモジュールについての指定された前記機能番号について前記実行結果記憶手段に記憶されている内容を読み出しその結果を予め定められた様式に編集して前記データ表示手段に出力する実行結果編集手段とを備えることを特徴とするデグレートチェック実行装置。

【請求項 2】 前記デグレートチェック実行制御手段の代りに前記デグレート実行制御手段が前記指定されたプログラムモジュールについて指定された機能番号に対応して与えられているテストデータに基づいた処理を前記コマンド識別実行手段により起動されて実行しその結果とこの結果に対応する期待値とを前記実行結果記憶手段に記憶させた後に前記実行結果編集手段を起動するデグレートチェック実行制御手段を備えることを特徴とする請求項 1 記載のデグレートチェック実行装置。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】 本発明は、プログラム改造後のソフトウェアについてデグレートチェック（既存機能検査）を行うときに用いられるデグレートチェック実行装置に関する。

## 【0002】

【従来の技術】 プログラム修正時における既存機能の検査はソフトウェアの信頼性を確保するために必要不可欠な作業である。従来、このような既存機能の検査（デグレートチェック）は上述したプログラムモジュール担当者の人手作業に依存する形態で作業が進められてきており、その検査項目や実行方法は、プログラムが修正される都度作成されてきた。

## 【0003】

【発明が解決しようとする課題】 しかし、このような方法では、プログラムの修正対象ではない既存機能を検査するための検査項目を、何度も作成しなければならないといった無駄な作業を必要とし、ソフトウェア保守量が増え、また、プログラム修正を行う上で、既存機能の熟知が必要不可欠となり、修正規模の大小にかかわらずプログラム修正が容易に行えないという問題点がある。

【0004】 本発明の目的は、簡単な装置構成で上記欠点を除去し、正確に、しかもプログラムの修正を行う担当者のスキルに依存せずにプログラム修正後の既存機能の検査を容易に行うことができデグレートチェック実行装置を提供することにある。

## 【0005】

【課題を解決するための手段】 本発明のデグレートチェック実行装置は、端末内に設けたデータおよびコマンドを入力するための入力手段と、前記端末内に設けたデータ表示手段と、ホストコンピュータ内に設けられて予め作成され修正されたプログラムモジュールについてこのプログラムモジュール名別に前記プログラムモジュールが有する既存機能をテストするために与えるべき初期値であるテストデータとこのテストデータを与えられた前記プログラムモジュールが処理して出力すべきデータを期待値としこれらテストデータと期待値とテストすべき機能名とを機能番号に対応づけて記憶させたデグレートテーブルを予め作成して記憶させたデクレードチェックデータ記憶手段と、前記ホストコンピュータ内に設けられ前記入力手段から入力されたコマンドを識別し前記コマンドに対応した制御を行うコマンド識別実行手段と、前記ホストコンピュータ内に設けられ前記コマンド識別実行手段により制御され起動され指定されたプログラムモジュール名に対応する前記機能名と機能番号を前記デグレートチェックデータ記憶手段より読み出し前記データ表示手段に出力するとともに前記入力手段による入力により指定された機能番号を予め定められた前記場所に記憶するメニュー表示実行手段と、前記ホストコンピュ

ータ内に設けられ前記コマンド識別実行手段により制御され起動され前記メニュー表示実行手段が記憶している機能番号に対応づけられて記憶している前記テストデータを初期値として前記ホストコンピュータ内に記憶されている前記プログラムモジュールを起動して動作させその結果の出力と前記テストデータに対応して記憶されている前記デグレードチェックデータ記憶手段内に記憶されている期待値とを出力するデグレードチェック実行手段と、前記ホストコンピュータ内に設けられ前記デグレードチェック実行手段の出力を予め決められた様式で記憶する実行結果記憶手段と、前記ホストコンピュータ内に備えられ前記コマンド識別実行手段により制御され起動されると前記実行結果記憶手段内に記憶されているデータの内で指定されたプログラムモジュールについての指定された前記機能番号について前記実行結果記憶手段に記憶されている内容を読み出しその結果を予め定められ様式に編集して前記データ表示手段に出力する実行結果編集手段とを備えて構成されている。

#### 【0006】

【実施例】次に、本発明について図面を参照して詳細に説明する。図1は、本発明のデグレードチェック実行装置の一実施例を示すブロック図であり、図2は、図1中のコマンド識別実行手段7の動作を説明するフローチャートである。図3は、図1のデグレードチェックデータ記憶手段9のデグレードチェックテーブルの構造を示す説明である。

【0007】本発明は、端末1内に設けられた複数の手段とホストコンピュータ2内に設けられた複数の手段から構成されている。端末1は、入力手段3と処理結果を表示するデータ表示手段4とホストコンピュータ2との間のデータの送受信を行うデータ送受信手段5から構成されている。また、ホストコンピュータ2は、データ送受信手段6とデータ入力手段3から入力されたデータ中からコマンドの内容を識別し、その内容に応じた制御と行うコマンド識別実行手段7と、コマンド識別実行手段7により指定されたプログラムを実行するデグレードチェック実行制御手段8と、メニュー表示中に示される機能別にその初期値と被対象プログラムの実行により出力される期待値をもつデグレードチェックデータ記憶手段9と、表示メニュー実行手段12と、実行結果記憶手段10と、その結果を編集して出力する実行結果編集手段11から構成されている。

【0008】端末1上のデータ入力手段3より予め決められたコマンドを入力する。このコマンドデータは送受信手段5を介してホストコンピュータ2へ送信される。ホストコンピュータ2は、データ送受信手段6によりこれを受信し、コマンド識別実行手段7によってコマンドを識別する(ステップ101)。コマンド識別実行手段7はコマンドで指定された手段を起動する。たとえば、入力されたコマンドがメニュー表示の場合メニュー

表示実行手段12が起動され(ステップ102)、入力手段3によって続いて入力されるデグレードチェックを行うモジュール名をキーにして、メニュー表示実行手段12がデグレードチェックデータ記憶手段9内にモジュール名別に予め作成され記憶されている図3に示すデグレードチェックテーブルを検索し(ステップ103)、そのテーブルの機能番号1～nとこれらに対応づけられている機能名をデータ送受信手段5および6を介して、データ表示手段4に出力する。ここで入力手段3から機能番号1～nの内の所望の機能番号を入力すると、メニュー表示実行手段12は指定された機能番号を予め定められた記憶場所に記憶する。続いて、チェック実行のコマンドを入力手段3より入力すると、コマンド識別実行手段7がこれを識別(ステップ105)しデグレード実行制御手段7を起動する(ステップ106)。デグレードチェック実行制御手段8は、対象とするモジュール名およびデータ表示手段4により記憶されている指定された機能番号をキーとして、デグレードチェックデータ記憶手段9上のデグレードチェックテーブルを検索し、前記デグレードチェックテーブル上の入力データをテストデータ(初期値)として取り込み(ステップ107)、ホストコンピュータ2内の図示されていない記憶部に記憶されている対象とするプログラムモジュールを起動し、実行させ、その結果が期待値と一致しているか否かを順次チェックし、その実行結果と期待値とを実行結果記憶手段10に予め定められた様式で書き込む(ステップ108と109)。また、デグレードチェック実行制御手段8は、続いて実行結果編集手段11を起動する(ステップ110)。実行結果編集手段11は、前述の実行結果記憶手段10を参照し、随時、デグレードチェックの実行結果とその期待値をデータ送受信手段6および5を介して、データ表示手段4により端末1上に表示する。もし、処理結果として、対象とする機能のチェックにおける期待値と出力結果にアンマッチが生じた場合、その機能番号または機能名を点滅させ、オペレータに不具合の発生を通知する。

【0009】コマンドが結果確認の場合入力手段3より入力されたモジュール名のプログラムのデグレードチェック実行結果についてコマンド識別実行手段7が識別し(ステップ110)、実行結果編集手段11を起動する(ステップ111)。実行結果編集手段11は、実行結果記憶手段10を参照し、対象とする実行結果データと対応する期待値を取り込み、予め定められた様式に編集してデータ送受信手段6および5を介して、データ表示手段4に出力し端末1上に表示する(ステップ112)。

【0010】なお、上述した実施例においてはデグレードチェック実行制御手段は対象とするプログラムモジュールを動作させ、その動作結果と対応する期待値とを実行結果記憶手段10に記憶させた後、実行結果編集手段

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11を起動しているが、この実行結果編集手段11の起動動作を省略することもできる。

【0011】

【発明の効果】以上説明したように、本発明は、一度作成されたテスト項目をホストコンピュータ記憶装置内で保有するとにより、適宜実施されるプログラム修正に伴なう既存機能検査を、担当者のスキルにかかわらず容易に実行することを可能にするだけでなく、同一の検査項目について重複して作成する無駄な工数を費やす必要がなくなる効果を有する。

【図面の簡単な説明】

【図1】本発明のデグレードチェック実行装置の一実施例を示すブロック図である。

【図2】本実施例のデグレードチェック実行装置における動作の一例を示すフローチャートである。

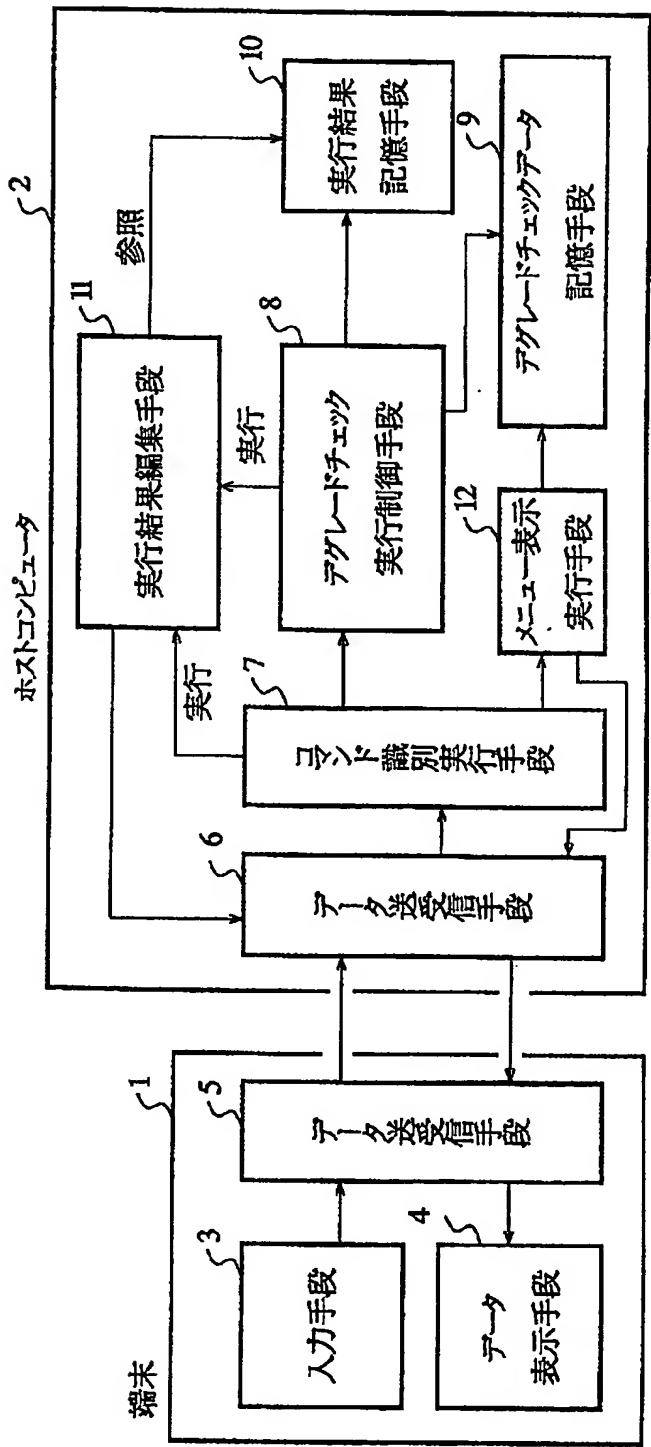
【図3】図1に示されているデグレードチェックデータ

記憶手段内に記憶されるデグレードチェックテーブルを示す説明図である。

【符号の説明】

- |      |                  |
|------|------------------|
| 1    | 端末               |
| 2    | ホストコンピュータ        |
| 3    | 入力手段             |
| 4    | データ表示手段          |
| 5    | データ送受信手段         |
| 6    | データ送受信手段         |
| 10 7 | コマンド識別実行手段       |
| 8    | デグレードチェック実行制御手段  |
| 9    | デグレードチェックデータ記憶手段 |
| 10   | 実行結果記憶手段         |
| 11   | 実行結果編集手段         |
| 12   | メニュー表示実行手段       |

【図 1】

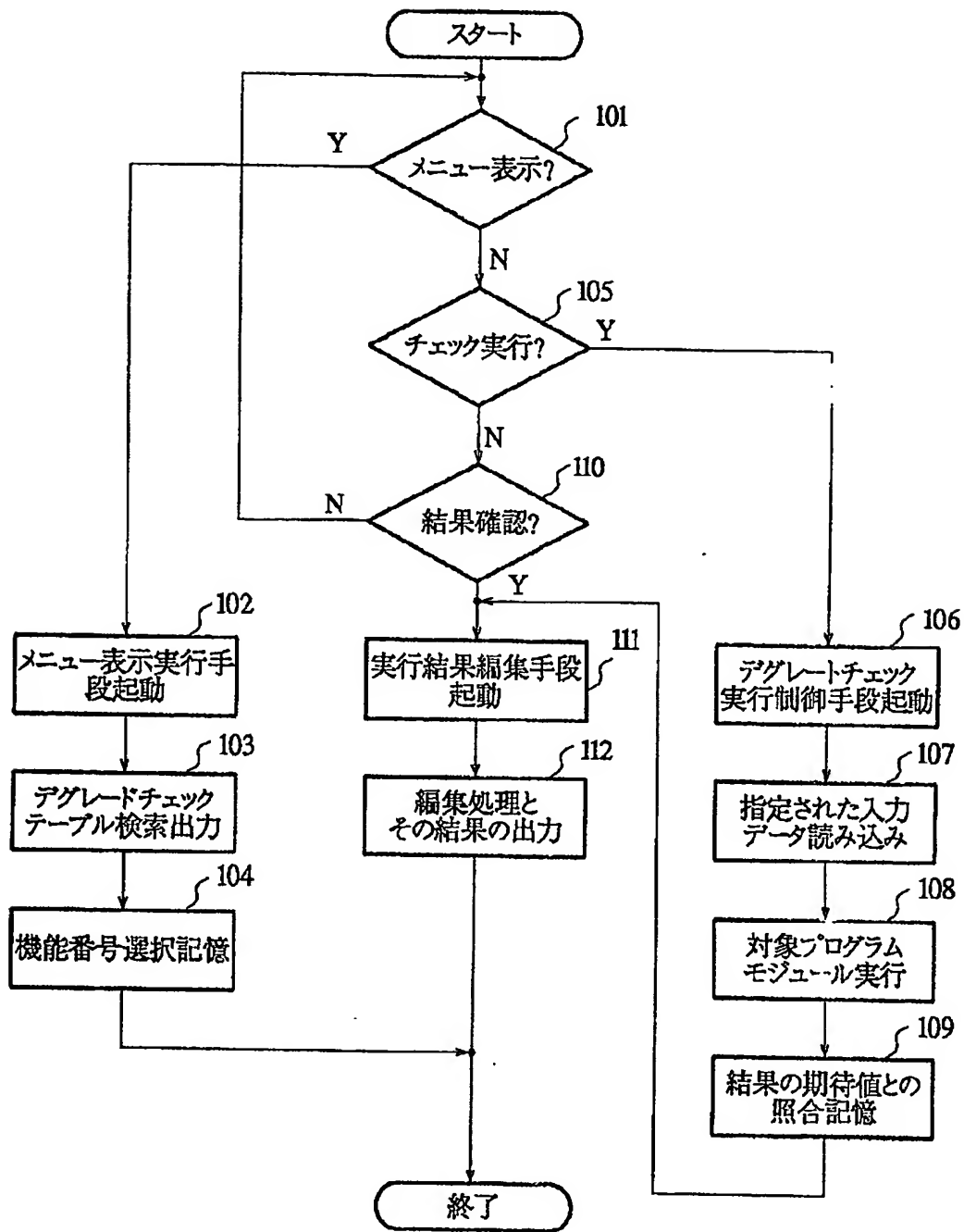


【図 3】

アグレートチェックテーブル

機能番号 1	機能名 1	入力データ 1	入力データ 2	...	入力データ n	期待値 1	期待値 2	...	期待値 n
機能番号 2	機能名 2	入力データ 1	入力データ 2	...	入力データ n	期待値 1	期待値 2	...	期待値 n
...	...	...	...	...	...	...	...	...	...
機能番号 n	機能名 n	入力データ 1	入力データ 2	...	入力データ n	期待値 1	期待値 2	...	期待値 n

【図 2】



# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HOKURIKU NIPPON DENKI SOFTWARE KK

(22)Date of filing : 02.10.1991

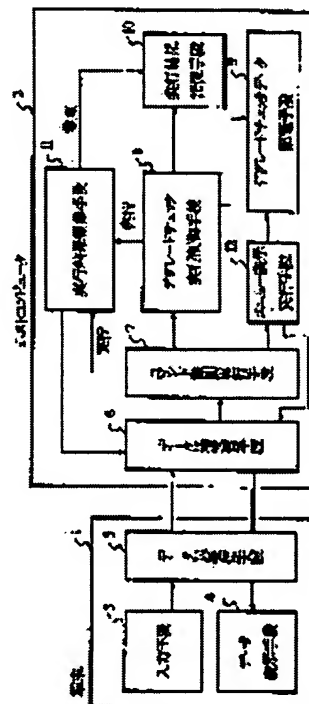
(72)Inventor : MORI SHINYA

## (54) DEGRADE CHECK EXECUTING DEVICE

### (57)Abstract:

**PURPOSE:** To provide the device which can easily test whether there is any trouble in existent functions or not when a program module is changed.

**CONSTITUTION:** In a host computer 2, a degrade check data storing means 9 is provided to previously store test data for testing the operations of existent functions by program modules and an expected value showing this expected operated result. A command identification executing means 7 provided in the host computer 2 starts a degrade check execution control means 8. When a command is identified, the test data in the degrade check data storing means 9 are inputted to the designated program module, the objective program module is operated, and the executed result is stored in an executed result storing means 10 together with the expected value. When an executed result editing means 11 is started by the command identification executing means 7, data editing the result into a decided form are outputted from the executed result storing means 10 to a data display means 4.



## LEGAL STATUS

[Date of request for examination]

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[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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**CLAIMS**

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**[Claim(s)]**

[Claim 1] The input means for inputting the data and the command which were formed in the terminal, The data display means established in said terminal, In order to test the existing function which said program module has according to this program module name about the program module which was prepared in the host computer, was created beforehand and corrected Said program module which was able to give the test data which is the initial value which should be given, and this test data processes. A DEKURED check data storage means by which created beforehand the degradation table which the data which should be outputted are made into expected value, and these test datas, expected value, and the function name that should be tested were matched [ table ] with the functional number, and made it memorize, and it was made to memorize, A command discernment activation means to identify the command which was formed in said host computer and inputted from said input means, and to perform control corresponding to said command, It is prepared in said host computer. With said command discernment activation means While reading said function name and functional number corresponding to the program module name controlled, started and specified from said degradation check data storage means and outputting to said data display means A menu display activation means to memorize the functional number specified by the input by said input means in said location which was able to be appointed beforehand, It is prepared in said host computer. With said command discernment activation means Said test data which it was matched with the functional number which it was controlled, started and said menu display activation means has memorized, and has been memorized is made into initial value. A degradation check activation means to output the expected value memorized in said degradation check data storage means which said program module memorized in said host computer is started, is operated, and is memorized corresponding to the output and said test data of the result, An activation result storage means to memorize in the format which was established in said host computer and was able to opt for the output of said degradation check activation means beforehand, It has in said host computer. With said command discernment activation means It edits into the format which read the contents memorized by said activation result storage means about said functional number specified about the program module specified among the data memorized in said activation result storage means if controlled and started, and was able to define the result beforehand. Degradation check activation equipment characterized by having an activation result edit means to output to said data display means.

[Claim 2] It corresponds to the functional number as which said degradation execution control means was specified about said specified program module instead of said DEKURETO check execution control means. The processing based on the test data given with said command discernment activation means Degradation check activation equipment according to claim 1 characterized by having a degradation check execution control means to be started, and to start said activation result edit means after performing and making said activation result storage means memorize the expected value corresponding to that result and this result.

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the degradation check activation equipment used when performing a degradation check (existing functional test) about the software after program reconstruction.

[0002]

[Description of the Prior Art] Inspection of the existing function at the time of program correction is an indispensable activity in order to secure software reliability. Conventionally, the activity is done with the gestalt depending on the help activity of the program module person in charge who mentioned above inspection (degradation check) of such an existing function, and the inspection item and activation approach have been created whenever a program is corrected.

[0003]

[Problem(s) to be Solved by the Invention] However, when the useless activity that the inspection item for inspecting the existing function which is not a program modification object by such approach must be created repeatedly is needed, and the amount of software maintenances increases and program correction is made, familiarity of the existing function becomes indispensable and the trouble that program correction cannot be carried out easily is irrespective of the size of a correction scale.

[0004] The purpose of this invention is to be able to remove the above-mentioned fault by the easy equipment configuration, able to inspect the existing function after program correction easily, without being dependent on the skill of the person in charge who moreover performs program modification correctly, and offer degradation check activation equipment.

[0005]

[Means for Solving the Problem] An input means for the degradation check activation equipment of this invention to input the data and the command which were formed in the terminal, The data display means established in said terminal, In order to test the existing function which said program module has according to this program module name about the program module which was prepared in the host computer, was created beforehand and corrected Said program module which was able to give the test data which is the initial value which should be given, and this test data processes. A DEKURED0 check data storage means by which created beforehand the degradation table which the data which should be outputted are made into expected value, and these test datas, expected value, and the function name that should be tested were matched [ table ] with the functional number, and made it memorize, and it was made to memorize, A command discernment activation means to identify the command which was formed in said host computer and inputted from said input means, and to perform control corresponding to said command, It is prepared in said host computer. With said command discernment activation means While reading said function name and functional number corresponding to the program module name controlled, started and specified from said degradation check data storage means and outputting to said data display means A menu display activation means to memorize the functional number specified by the input by said input means in said location which was able to be appointed beforehand, It is prepared in said host computer. With said command discernment activation means Said test data which it was matched with the functional number which it was controlled, started and said menu display activation means has memorized, and has been memorized is made into initial value. A degradation check activation means to output the expected value memorized in said degradation check data storage means which said program module memorized in said host computer is started, is operated, and is memorized corresponding to the output and said test data of the result, An activation result storage means to

memorize in the format which was established in said host computer and was able to opt for the output of said degradation check activation means beforehand, It has in said host computer. With said command discernment activation means Read the contents memorized by said activation result storage means about said functional number specified about the program module specified among the data memorized in said activation result storage means if controlled and started, can define the result beforehand, and it edits into \*\*\*\*\*. It has an activation result edit means to output to said data display means, and is constituted.

[0006]

[Example] Next, this invention is explained to a detail with reference to a drawing. Drawing 1 is the block diagram showing one example of the degradation check activation equipment of this invention, and drawing 2 is a flow chart explaining actuation of the command discernment activation means 7 in drawing 1. Drawing 3 is explanation which shows the structure of the degradation check table of the degradation check data storage means 9 of drawing 1.

[0007] This invention consists of two or more means established in the terminal 1, and two or more means established in the host computer 2. The terminal 1 consists of data transceiver means 5 which transmit and receive the data between the data display means 4 and host computers 2 which display the input means 3 and a processing result. Moreover, the control a host computer 2 identifies the contents of the command out of the data inputted from the data transceiver means 6 and the data input means 3, and corresponding to the contents and the command discernment activation means 7 to perform, A degradation check execution control means 8 to execute the program specified by the command discernment activation means 7, The degradation check data storage means 9 which has the initial value and the expected value outputted by the program execution for -ed in the functional order shown during a menu display, It consists of a display-menu activation means 12, an activation result storage means 10, and an activation result edit means 11 to edit and output the result.

[0008] a \*\*\*\* arrangement \*\*\*\* command is inputted from the data input means 3 on a terminal 1. This command data is transmitted to a host computer 2 through the transceiver means 5. A host computer 2 receives this with the data transceiver means 6, and identifies a command with the command discernment activation means 7 (step 101). The command discernment activation means 7 starts the means specified by the command. For example, when the inputted command is a menu display, the menu display activation means 12 is started (step 102), and the module name which performs the degradation check continued and inputted by the input means 3 is used as a key. The degradation check table shown in drawing 3 with which the menu display activation means 12 is \*\*\*\* created, and is remembered to be according to the module name in the degradation check data storage means 9 is searched (step 103). The function name matched with the functional number 1 of the table - n, and these is outputted to the data display means 4 through the data transceiver means 5 and 6. the functional number as which the menu display activation means 12 was specified when the functional number of the request of the functional number 1 - the n was inputted from the input means 3 here -- eye \*\*\*\* -- laws -- \*\*\*\* -- the memory location -- it memorizes. Then, if the command of check activation is inputted from the input means 3, the command discernment activation means 7 will identify this (step 105), and will start the degradation execution control means 7 (step 106). The degradation check execution control means 8 uses the specified functional number which is memorized by target module name and data display means 4 as a key. The degradation CHUKKU table on the degradation check data storage means 9 is searched. The input data on said degradation check table is incorporated as a test data (initial value) (step 107). The program module made into the object memorized by the storage section by which it is not illustrated in the host computer 2 is started. It is made to perform, the sequential check of whether the result is in agreement with expected value is carried out, and it writes in in the format to which the activation result and expected value were beforehand set by the activation result storage means 10 (steps 108 and 109). Moreover, the degradation check execution control means 8 starts the activation result edit means 11 continuously (step 110). The activation result edit means 11 displays the activation result and expected value of a degradation check on a terminal 1 with the data display means 4 through the data transceiver means 6 and 5 at any time with reference to the above-mentioned activation result storage means 10. When AMMATCHI arises in the target expected value and output in a check of a function as a processing result, the functional number or function name is blinked, and an operator is notified of generating of fault.

[0009] When a command is a result check, the command discernment activation means 7 identifies about the degradation check activation result of the program of the module name inputted from the input means 3 (step

110), and the activation result edit means 11 is started (step 111). The activation result edit means 11 incorporates the target activation result data and corresponding expected value with reference to the activation result storage means 10, edits them into the format defined beforehand, through the data transceiver means 6 and 5, is outputted to the data display means 4, and is displayed on a terminal 1 (step 112).

[0010] In addition, although the activation result edit means 11 is started after a degradation check execution control means' operating the target program module and making the activation result storage means 10 memorize that result of operation and corresponding expected value in the example mentioned above, starting actuation of this activation result edit means 11 is also omissible.

[0011]

[Effect of the Invention] It has the effectiveness that it becomes unnecessary to spend the useless man day which it not only makes it possible to perform easily the existing functional test accompanying the program correction which will boil it if this invention holds the test entry created once within host computer storage, and is carried out more suitably irrespective of a person's in charge skill, but overlaps about the same inspection item as explained above, and is created.

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**TECHNICAL FIELD**

---

[Industrial Application] This invention relates to the degradation check activation equipment used when performing a degradation check (existing functional test) about the software after program reconstruction.

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**PRIOR ART**

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[Description of the Prior Art] Inspection of the existing function at the time of program correction is an indispensable activity in order to secure software reliability. Conventionally, the activity is done with the gestalt depending on the help activity of the program module person in charge who mentioned above inspection (degradation check) of such an existing function, and the inspection item and activation approach have been created whenever a program is corrected.

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**EFFECT OF THE INVENTION**

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[Effect of the Invention] It has the effectiveness that it becomes unnecessary to spend the useless man day which it not only makes it possible to perform easily the existing functional test accompanying the program correction which will boil it if this invention holds the test entry created once within host computer storage, and is carried out more suitably irrespective of a person's in charge skill, but overlaps about the same inspection item as explained above, and is created.

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**TECHNICAL PROBLEM**

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[Problem(s) to be Solved by the Invention] However, when the useless activity that the inspection item for inspecting the existing function which is not a program modification object by such approach must be created repeatedly is needed, and the amount of software maintenances increases and program correction is made, familiarity of the existing function becomes indispensable and the trouble that program correction cannot be carried out easily is irrespective of the size of a correction scale.

[0004] The purpose of this invention is to be able to remove the above-mentioned fault by the easy equipment configuration, able to inspect the existing function after program correction easily, without being dependent on the skill of the person in charge who moreover performs program modification correctly, and offer degradation check activation equipment.

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**MEANS**

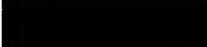
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[Translation done.]



 [JP,05-094298,A]

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<u>CLAIMS</u>	<u>DETAILED DESCRIPTION</u>	<u>TECHNICAL FIELD</u>	<u>PRIOR ART</u>	<u>EFFECT OF THE INVENTION</u>
<u>TECHNICAL PROBLEM</u>	<u>MEANS</u>	<u>EXAMPLE</u>	<u>DESCRIPTION OF DRAWINGS</u>	<u>DRAWINGS</u>

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**EXAMPLE**

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[Example] Next, this invention is explained to a detail with reference to a drawing. Drawing 1 is the block diagram showing one example of the degradation check activation equipment of this invention, and drawing 2 is a flow chart explaining actuation of the command discernment activation means 7 in drawing 1 . Drawing 3 is explanation which shows the structure of the degradation check table of the degradation check data storage means 9 of drawing 1 .

[0007] This invention consists of two or more means established in the terminal 1, and two or more means established in the host computer 2. The terminal 1 consists of data transceiver means 5 which transmit and receive the data between the data display means 4 and host computers 2 which display the input means 3 and a processing result. Moreover, the control a host computer 2 identifies the contents of the command out of the data inputted from the data transceiver means 6 and the data input means 3, and corresponding to the contents and the command discernment activation means 7 to perform, A degradation check execution control means 8 to execute the program specified by the command discernment activation means 7, The degradation check data storage means 9 which has the initial value and the expected value outputted by the program execution for -ed in the functional order shown during a menu display, It consists of a display-menu activation means 12, an activation result storage means 10, and an activation result edit means 11 to edit and output the result.

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10. When AMMATCHI arises in the target expected value and output in a check of a function as a processing result, the functional number or function name is blinked, and an operator is notified of generating of fault.

[0009] When a command is a result check, the command discernment activation means 7 identifies about the degradation check activation result of the program of the module name inputted from the input means 3 (step 110), and the activation result edit means 11 is started (step 111). The activation result edit means 11 incorporates the target activation result data and corresponding expected value with reference to the activation result storage means 10, edits them into the format defined beforehand, through the data transceiver means 6 and 5, is outputted to the data display means 4, and is displayed on a terminal 1 (step 112).

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

**[Drawing 1]** It is the block diagram showing one example of the degradation check activation equipment of this invention.

**[Drawing 2]** It is the flow chart which shows an example of the actuation in the degradation check activation equipment of this example.

**[Drawing 3]** It is the explanatory view showing the degradation check table memorized in the degradation check data storage means shown in drawing 1 .

**[Description of Notations]**

- 1 Terminal
- 2 Host Computer
- 3 Input Means
- 4 Data Display Means
- 5 Data Transceiver Means
- 6 Data Transceiver Means
- 7 Command Discernment Activation Means
- 8 Degradation Check Execution Control Means
- 9 Degradation Check Data Storage Means
- 10 Activation Result Storage Means
- 11 Activation Result Edit Means
- 12 Menu Display Activation Means

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**[Translation done.]**

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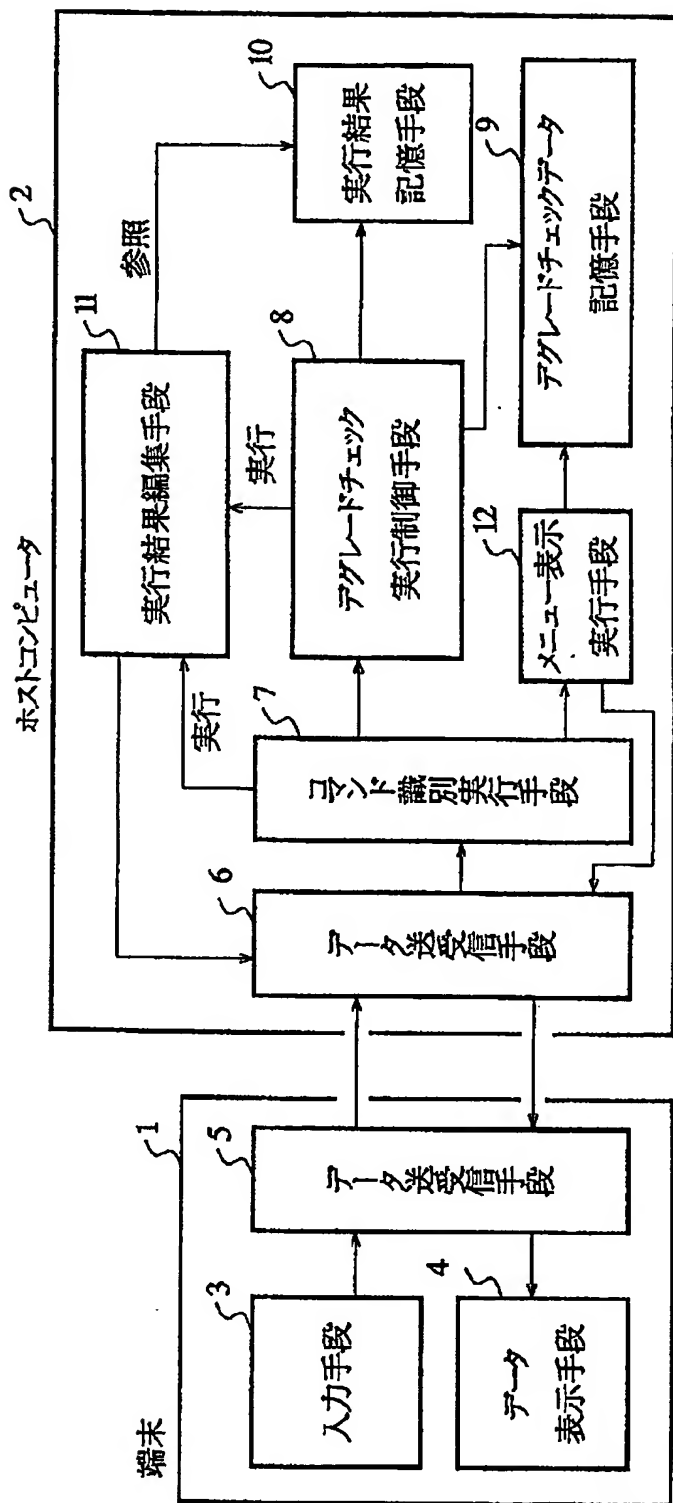
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DRAWINGS

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[Drawing 1]

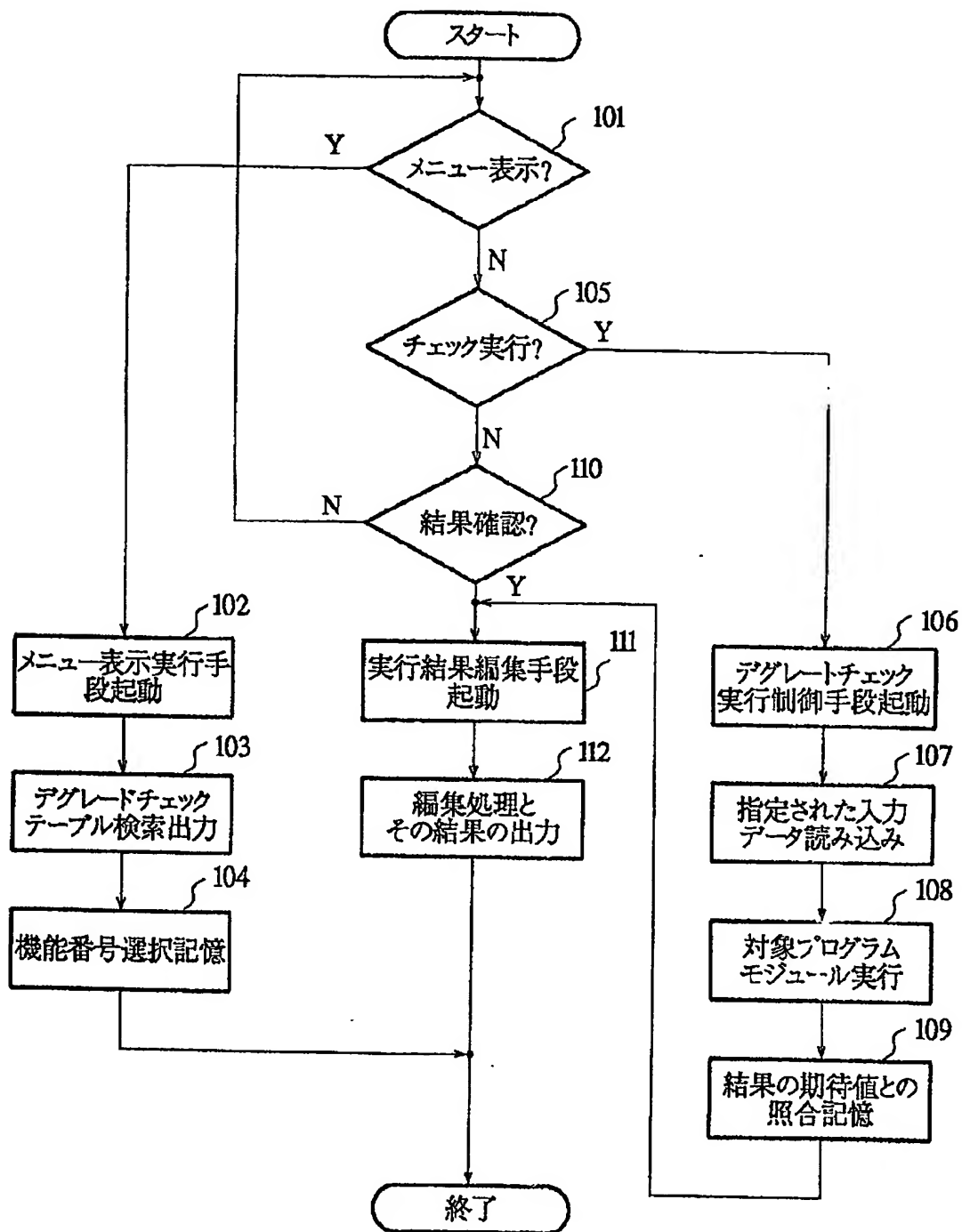


[Drawing 3]

デグレードチェックテーブル

機能番号 1	機能名 1	入力データ1	入力データ2	・・・	入力データn	期待値 1	期待値 2	・・・	期待値 n
機能番号 2	機能名 2	入力データ1	入力データ2	・・・	入力データn	期待値 1	期待値 2	・・・	期待値 n
⋮	⋮	⋮	⋮		⋮	⋮	⋮		⋮
⋮	⋮	⋮	⋮		⋮	⋮	⋮		⋮
機能番号 n	機能名 n	入力データ1	入力データ2	・・・	入力データn	期待値 1	期待値 2	・・・	期待値 n

[Drawing 2]



[Translation done.]



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